Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	130	decomposition and tree and graph and nodes and edges and path and distance and depth	US-PGPUB; USPAT	OR	OFF	2005/03/18 14:08

USPTO Patent Full-Text and Image Database

Home | Quick | Advanced | Pat Num | Help

Next List | Bottom | View Cart

Searching 1790 to present...

Results of Search in 1790 to present db for:
(((((((decomposition AND tree) AND graph) AND nodes) AND edges) AND path) AND distance) AND depth): 73 patents.
Hits 1 through 50 out of 73

Final 23 Hits

Jump To

Refine Search | decomposition and tree and graph and nodes and edge

	PAT. NO.	Title
1	6,865,567	Method of generating attribute cardinality maps
2	6,859,916	Polygonal vias
3	6,857,719	Printing cartridge with pressure sensor array identification
4	6,850,274	Image texture mapping camera
5	6,831,681	Preprinted print rolls for use in an image processing device
6	6,829,757	Method and apparatus for generating multi-layer routes
7	6,803,989	Image printing apparatus including a microcontroller
8	6,788,336	Digital camera with integral color printer and modular replaceable print roll
9	6,786,420	Data distribution mechanism in the form of ink dots on cards
10	6,781,599	System and method for visualizing massive multi-digraphs
11	6,750,944	Programmable camera system with software interpreter
12	6,750,901	Digital instant printing camera with image processing capability
13	6,741,983	Method of indexed storage and retrieval of multidimensional information
14	6,702,417	Printing cartridge with capacitive sensor identification
15	6,680,976	Robust, reliable compression and packetization scheme for transmitting video
16	6,665,454	Dot adjacency compensation in optical storage systems using ink dots
17	6,644,771	Printing cartridge with radio frequency identification
18	6,636,216	Digital image warping system
19	6,618,117	Image sensing apparatus including a microcontroller
20	6,581,048	3-brain architecture for an intelligent decision and control system

21 6,565,181 Printing cartridge with switch array identification
22 6,556,983 Methods and apparatus for finding semantic information, such as usage logs, similar to a query using a pattern lattice data space
23 6,547,364 Printing cartridge with an integrated circuit device
24 6,542,645 Adaptive tracking of dots in optical storage system using ink dots
25 6,493,866 Phase-shift lithography mapping and apparatus
26 6,476,863 Image transformation means including user interface
27 6,460,036 System and method for providing customized electronic newspapers and target advertisements
28 6,459,495 Dot center tracking in optical storage systems using ink dots
29 6,452,596 Methods and apparatus for the efficient compression of non-manifold polygonal meshes
30 6,442,525 System for authenticating physical objects
31 6,431,669 Method and apparatus for information storage in a portable print roll
32 6,416,154 Printing cartridge with two dimensional code identification
33 6,415,054 Target detection for dot region alignment in optical storage systems using ink dots
34 6,407,434 Hexagonal architecture
35 6,400,846 Method for ordering image spaces to search for object surfaces
36 6,374,403 Programmatic method for reducing cost of control in parallel processes
37 6,362,869 Authentication system for camera print rolls
38 6,362,868 Print media roll and ink replaceable cartridge
39 6,356,715 Prints remaining indicating for camera with variable length print capability
40 6,343,936 System and method for performing a three-dimensional virtual examination, navigation and visualization
41 6,317,192 Utilization of image tiling effects in photographs
42 6,315,200 Encoded data card reading system
43 6,312,980 Programmable triangular shaped device having variable gain
44 6,307,964 Method for ordering image spaces to represent object shapes
45 6,219,833 Method of using primary and secondary processors
46 6,217,165 Ink and media cartridge with axial ink chambers
47 6,169,981 3-brain architecture for an intelligent decision and control system
48 6,102,958 Multiresolutional decision support system
49 6,097,073 Triangular semiconductor or gate
50 6,029,195 System for customized electronic identification of desirable objects

Next List | Top | View Cart
Home | Quick | Advanced | Pat Num | Help

USPTO Patent Full-Text and Image Database

Searching 1790 to present...

Results of Search in 1790 to present db for:
(((((((decomposition AND tree) AND graph) AND nodes) AND edges) AND path) AND distance) AND depth): 73 patents.
*Hits **51** through **73** out of **73***

Prev. 50 Hits

Jump To

Refine Search decomposition and tree and graph and nodes and edge

	PAT. NO.	Title
51	5,973,376	Architecture having diamond shaped or parallelogram shaped cells
52	5,889,329	Tri-directional interconnect architecture for SRAM
53	5,872,380	Hexagonal sense cell architecture
54	5,864,165	Triangular semiconductor NAND gate
55	5,861,885	Method and apparatus for indicating selected objects by spotlight
56	5,835,087	System for generation of object profiles for a system for customized electronic identification of desirable objects
57	5,834,821	Triangular semiconductor "AND" gate device
58	5,822,214	CAD for hexagonal architecture
59	5,811,863	Transistors having dynamically adjustable characteristics
60	5,808,330	Polydirectional non-orthoginal three layer interconnect architecture
61	5,801,422	Hexagonal SRAM architecture
62	5,789,770	Hexagonal architecture with triangular shaped cells
63	5,787,010	Enhanced dynamic programming method for technology mapping of combinational logic circuits
64	5,777,360	Hexagonal field programmable gate array architecture
65	5,754,939	System for generation of user profiles for a system for customized electronic identification of desirable objects
66	5,754,938	Pseudonymous server for system for customized electronic identification of desirable objects
67	5,742,086	Hexagonal DRAM array
68	5,671,381	Method and apparatus for displaying data within a three-dimensional information landscape

69 5,533,016 Communications network ring router
70 5,379,231 Method and apparatus for simulating a microelectric interconnect circuit
71 5,113,523 High performance computer system
72 4,583,164 Syntactically self-structuring cellular computer
73 4,295,218 Error-correcting coding system

Prev. List | Top | View Cart
Home | Quick | Advanced | Pat Num | Help

Terms used
decomposition and **tree** and **graph** and **nodes** and **edges** and **path** and **distance** and **depth**

Found **40,368** of **151,219**

Sort results by relevance

Display results expanded form

Save results to a Binder

Search Tips

Open results in a new window

Try an Advanced Search

Try this search in The ACM Guide

Results 1 - 20 of 200 Result page: **1** 2 3 4 5 6 7 8 9 10 next

Best 200 shown

Relevance scale

1 Efficient parallel shortest-paths in digraphs with a separator decomposition

Edith Cohen

August 1993 **Proceedings of the fifth annual ACM symposium on Parallel algorithms and architectures**

Full text available: pdf(1.21 MB) Additional Information: full citation, references, citings, index terms

2 Session 9C: Labeling schemes for small distances in trees

Stephen Alstrup, Philip Bille, Theis Rauhe

January 2003 **Proceedings of the fourteenth annual ACM-SIAM symposium on Discrete algorithms**

Full text available: pdf(1.13 MB) Additional Information: full citation, abstract, references, index terms

We consider labeling schemes for trees, supporting various relationships between nodes at small distance. For instance, we show that given a tree T and an integer k we can assign labels to each node of T such that given the label of two nodes we can decide, from these two labels alone, if the distance between v and w is at most k and if so compute it. For trees with n nodes and $k \geqslant 2$, we give a lower bound on the maximum label length of ...

3 A graph-constructive approach to solving systems of geometric constraints

Ioannis Fudos, Christoph M. Hoffmann

April 1997 **ACM Transactions on Graphics (TOG)**, Volume 16 Issue 2

Full text available: pdf(593.07 KB) Additional Information: full citation, abstract, references, citings, index terms, review

A graph-constructive approach to solving systems of geometric constraints capable of effeciently handling well-constrained, overconstrained, and underconstrained configurations is presented. The geometric constraint solver works in two phases: in the analysis phase the constraint graph is analyzed and a sequence of elementary construction steps is derived, and then in the construction phase the sequence of construction steps in actually carried out. The analysis phase of the algorithm is de ...

Keywords: complexity, constraint solving, geometric constraints, graph-based constraint solvers, underconstrained systems

4 Shallow excluded minors and improved graph decompositions
Serge Plotkin, Satish Rao, Warren D. Smith
January 1994 **Proceedings of the fifth annual ACM-SIAM symposium on Discrete algorithms**
Full text available: pdf(894.68 KB) Additional Information: full citation, references, citings, index terms

5 Gross motion planning—a survey
Yong K. Hwang, Narendra Ahuja
September 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 3
Full text available: pdf(6.40 MB) Additional Information: full citation, abstract, references, citings, index terms, review

Motion planning is one of the most important areas of robotics research. The complexity of the motion-planning problem has hindered the development of practical algorithms. This paper surveys the work on gross-motion planning, including motion planners for point robots, rigid robots, and manipulators in stationary, time-varying, constrained, and movable-object environments. The general issues in motion planning are explained. Recent approaches and their performances are briefly described, a ...

Keywords: collision detection, computational geometry, implementation, motion planning, obstacle avoidance, path planning, spatial representation

6 Optimal shortest path queries in a simple polygon
L. J. Guibas, J. Hershberger
October 1987 **Proceedings of the third annual symposium on Computational geometry**
Full text available: pdf(1.68 MB) Additional Information: full citation, abstract, references, citings, index terms

Let P be a simple polygon with n sides. This paper shows how to preprocess the polygon so that, given two query points p and q inside P, the length of the shortest path inside the polygon from p to q can be found in time &Ogr;(log n). The path itself must be polygonal and can be extracted in additional time proportional to the number of tur ...

7 Parallel methods for visibility and shortest path problems in simple polygons (preliminary version)
Michael T. Goodrich, Steven B. Shauck, Sumanta Guha
May 1990 **Proceedings of the sixth annual symposium on Computational geometry**
Full text available: pdf(995.44 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper we give efficient parallel algorithms for solving a number of visibility and shortest path problems for simple polygons. Our algorithms all run in &Ogr;(log n) time and are based on the use of a new data structure for implicitly representing all shortest paths in a simple polygon P, which we call the stratified decomposition tree. We use this approach to derive efficient parallel methods for computing the visi ...

8 Compact oracles for reachability and approximate distances in planar digraphs
Mikkel Thorup
November 2004 **Journal of the ACM (JACM)**, Volume 51 Issue 6
Full text available: pdf(375.48 KB) Additional Information: full citation, abstract, references, index terms

It is shown that a planar digraph can be preprocessed in near-linear time, producing a near-linear space oracle that can answer reachability queries in constant time. The oracle

can be distributed as an $O(\log n)$ space label for each vertex and then we can determine if one vertex can reach another considering their two labels only.The approach generalizes to give a near-linear space approximate distances oracle for a weighted planar digraph. With weights drawn from {0, ...

Keywords: Planar graphs, reachability and shortest paths oracles

9 Routing II: Tree based MPLS routing

Anupam Gupta, Amit Kumar, Mikkel Thorup

June 2003 **Proceedings of the fifteenth annual ACM symposium on Parallel algorithms and architectures**

Full text available: pdf(122.41 KB) Additional Information: full citation, abstract, references, index terms

MPLS (MultiProtocol Label Switching) is a new technology proposed by the IETF [4,10] for network routing, and is being increasingly deployed by the largest Internet service providers. The MPLS technology differs from conventional network protocols in a crucial way: instead of reading the entire packet header at all switching points, the analysis of the packet header is done just *once*, when the packet header is assigned a *stack of labels*, and thenceforth, each switching point or rou ...

Keywords: MPLS routing, networks, routing algorithms

10 Algorithms 1: I/O-efficient topological sorting of planar DAGs

Lars Arge, Laura Toma, Norbert Zeh

June 2003 **Proceedings of the fifteenth annual ACM symposium on Parallel algorithms and architectures**

Full text available: pdf(330.43 KB) Additional Information: full citation, abstract, references, index terms

We present algorithms that solve a number of fundamental problems on planar directed graphs (planar digraphs) in $O((N))$ I/Os, where (N) is the number of I/Os needed to sort N elements. The problems we consider are breadth-first search, the single-source shortest path problem, computing a directed ear decomposition of a strongly connected planar digraph, computing an open directed ear decomposition of a strongly connected biconnected planar digraph, and topologically sorting ...

Keywords: I/O-efficient algorithms, ear decomposition, graph algorithms, planar directed graphs, topological sorting

11 Combinational logic synthesis for LUT based field programmable gate arrays

Jason Cong, Yuzheng Ding

April 1996 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 1 Issue 2

Full text available: pdf(628.91 KB) Additional Information: full citation, abstract, references, citings, index terms, review

The increasing popularity of the field programmable gate-array (FPGA) technology has generated a great deal of interest in the algorithmic study and tool development for FPGA-specific design automation problems. The most widely used FPGAs are LUT based FPGAs, in which the basic logic element is a K-input one-output lookup-table (LUT) that can implement any Boolean function of up to K variables. This unique feature of the LUT has brought new challenges to lo ...

Keywords: FPGA, area minimization, computer-aided design of VLSI, decomposition, delay minimization, delay modeling, logic optimization, power minimization, programmable logic, routing, simplification, synthesis, system design, technology mapping

12 A polynomial-time approximation scheme for weighted planar graph TSP
Sanjeev Arora, Michelangelo Grigni, David Karger, Philip Klein, Andrzej Woloszyn
January 1998 **Proceedings of the ninth annual ACM-SIAM symposium on Discrete algorithms**
Full text available: pdf(945.58 KB) Additional Information: full citation, references, citings, index terms

13 The Quadtree and Related Hierarchical Data Structures
Hanan Samet
June 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 2
Full text available: pdf(4.87 MB) Additional Information: full citation, references, citings, index terms

14 On randomization in sequential and distributed algorithms
Rajiv Gupta, Scott A. Smolka, Shaji Bhaskar
March 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 1
Full text available: pdf(8.01 MB) Additional Information: full citation, abstract, references, citings, index terms

Probabilistic, or randomized, algorithms are fast becoming as commonplace as conventional deterministic algorithms. This survey presents five techniques that have been widely used in the design of randomized algorithms. These techniques are illustrated using 12 randomized algorithms—both sequential and distributed— that span a wide range of applications, including:primality testing (a classical problem in number theory), interactive probabilistic proof s ...

Keywords: Byzantine agreement, CSP, analysis of algorithms, computational complexity, dining philosophers problem, distributed algorithms, graph isomorphism, hashing, interactive probabilistic proof systems, leader election, message routing, nearest-neighbors problem, perfect hashing, primality testing, probabilistic techniques, randomized or probabilistic algorithms, randomized quicksort, sequential algorithms, transitive tournaments, universal hashing

15 Efficient and practical modular decomposition
Elias Dahlhaus, Jens Gustedt, Ross M. McConnell
January 1997 **Proceedings of the eighth annual ACM-SIAM symposium on Discrete algorithms**
Full text available: pdf(1.22 MB) Additional Information: full citation, references, citings, index terms

16 Session 7B: Bypassing the embedding: algorithms for low dimensional metrics
Kunal Talwar
June 2004 **Proceedings of the thirty-sixth annual ACM symposium on Theory of computing**
Full text available: pdf(249.41 KB) Additional Information: full citation, abstract, references, index terms

The *doubling dimension* of a metric is the smallest k such that any ball of radius 2r can be covered using 2^k balls of radius r. This concept for abstract metrics has been proposed as a natural analog to the dimension of a Euclidean space. If we could embed metrics with low doubling dimension into low dimensional Euclidean spaces, they would inherit several

algorithmic and structural properties of the Euclidean spaces. Unfortunately however, such a restriction on dimension does ...

Keywords: PTAS, TSP, distance labels, doubling metrics, routing schemes

17 Subgraph isomorphism in planar graphs and related problems

David Eppstein

January 1995 **Proceedings of the sixth annual ACM-SIAM symposium on Discrete algorithms**

Full text available: pdf(1.08 MB) Additional Information: full citation, references, citings, index terms

18 Improved distributed algorithms for coloring and network decomposition problems

Alessandro Panconesi, Aravind Srinivasan

July 1992 **Proceedings of the twenty-fourth annual ACM symposium on Theory of computing**

Full text available: pdf(1.04 MB) Additional Information: full citation, references, citings, index terms

19 Efficient sequential and parallel algorithms for computing recovery points in trees and paths

Marek Chrobak, David Eppstein, Giuseppe F. Italiano, Moti Yung

March 1991 **Proceedings of the second annual ACM-SIAM symposium on Discrete algorithms**

Full text available: pdf(1.07 MB) Additional Information: full citation, references, index terms

20 Special Issue on learning theory: Path kernels and multiplicative updates

Eiji Takimoto, Manfred K. Warmuth

December 2003 **The Journal of Machine Learning Research**, Volume 4

Full text available: pdf(353.20 KB) Additional Information: full citation, abstract, index terms

Kernels are typically applied to linear algorithms whose weight vector is a linear combination of the feature vectors of the examples. On-line versions of these algorithms are sometimes called "additive updates" because they add a multiple of the last feature vector to the current weight vector.In this paper we have found a way to use special convolution kernels to efficiently implement "multiplicative" updates. The kernels are defined by a directed graph. Each edge contributes an input. The inp ...

Results 1 - 20 of 200 Result page: **1** 2 3 4 5 6 7 8 9 10 next

Terms used
decomposition and **tree** and **graph** and **nodes** and **edges** and **path** and **distance** and **depth**

Found **40,368** of **151,219**

Sort results by: relevance

Display results: expanded form

Save results to a Binder

Search Tips

Open results in a new window

Try an Advanced Search

Try this search in The ACM Guide

Results 21 - 40 of 200 Result page: previous 1 **2** 3 4 5 6 7 8 9 10 next

Best 200 shown

Relevance scale

21 Preprocessing an undirected planar network to enable fast approximate distance queries

Philip Klein

January 2002 **Proceedings of the thirteenth annual ACM-SIAM symposium on Discrete algorithms**

Full text available: pdf(639.60 KB) Additional Information: full citation, abstract, references, citings

We describe a method for preprocessing a weighted planar undirected graph and representing the results of the preprocessing so as to facilitate subsequent approximate distance queries. For any $0 < \varepsilon < 1/10$, a representation can be constructed so that computing an ε-approximate distance from one node to another takes $O(\varepsilon^{-1})$ time, principally consisting of about $15\varepsilon^{-1}$ additions. The representation requires storage of 7.2ε-

22 Spanning trees short or small

R. Ravi, R. Sundaram, M. V. Marathe, D. J. Rosenkrantz, S. S. Ravi

January 1994 **Proceedings of the fifth annual ACM-SIAM symposium on Discrete algorithms**

Full text available: pdf(1.14 MB) Additional Information: full citation, references, citings, index terms

23 On approximating arbitrary metrices by tree metrics

Yair Bartal

May 1998 **Proceedings of the thirtieth annual ACM symposium on Theory of computing**

Full text available: pdf(4.11 MB) Additional Information: full citation, references, citings, index terms

24 Multicommodity max-flow min-cut theorems and their use in designing approximation algorithms

Tom Leighton, Satish Rao

November 1999 **Journal of the ACM (JACM)**, Volume 46 Issue 6

Full text available: pdf(318.22 KB) Additional Information: full citation, references, citings, index terms, review

Keywords: VLSI layout, approximation algorithms, divide and conquer, graph bisection,

graph partitioning, maximum flow, minimum cut, muticommocity flow, routing

25 Work-preserving emulations of fixed-connection networks

Richard R. Koch, F. T. Leighton, Bruce M. Maggs, Satish B. Rao, Arnold L. Rosenberg, Eric J. Schwabe

January 1997 **Journal of the ACM (JACM)**, Volume 44 Issue 1

Full text available: pdf(719.89 KB) Additional Information: full citation, references, citings, index terms, review

Keywords: graph embeddings, network emulations, parallel architectures, processor arrays

26 A software engineering perspective on algorithmics

Karsten Weihe

March 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 1

Full text available: pdf(1.62 MB) Additional Information: full citation, abstract, references, index terms, review

An algorithm component is an implementation of an algorithm which is not intended to be a stand-alone module, but to perform a specific task within a large software package or even within several distinct software packages. Therefore, the design of algorithm components must also incorporate software-engineering aspects. A key design goal is adaptability. This goal is important for maintenance throughout a project, prototypical development, and reuse in new, unforseen contex ...

Keywords: algorithm engineering

27 The complexity of acyclic conjunctive queries

May 2001 **Journal of the ACM (JACM)**, Volume 48 Issue 3

Full text available: pdf(566.16 KB) Additional Information: full citation, references, citings, index terms, review

Keywords: CSP, LOGCFL, acyclic hypergraph, algorithm, bounded treewidth, conjunctive query, constraint, constraint satisfaction problem, database theory, degree of cyclicity, hinge, join tree, parallel algorithm, query containment, qury-idth, subsumption, tree query

28 Distance labeling in graphs

Cyril Gavoille, David Peleg, Stéphane Pérennes, Ran Raz

January 2001 **Proceedings of the twelfth annual ACM-SIAM symposium on Discrete algorithms**

Full text available: pdf(816.02 KB) Additional Information: full citation, abstract, references, citings, index terms

We consider the problem of labeling the nodes of a graph in a way that will allow one to compute the distance between any two nodes directly from their labels (without using any additional information). Our main interest is in the minimal length of labels needed in different cases. We obtain upper bounds and (most importantly) lower bounds for several interesting families of graphs. In particular, our main results are the following:

- For general graphs, the length needed is &THgr ...

29 Heuristics, Experimental Subjects, and Treatment Evaluation in Bigraph Crossing Minimization

Matthias Stallmann, Franc Brglez, Debabrata Ghosh
January 2001 **Journal of Experimental Algorithmics (JEA)**, Volume 6

Full text available: pdf(858.74 KB) ps(3.01 MB) Additional Information: full citation, abstract, references, index terms

The bigraph crossing problem, embedding the two node sets of a bipartite graph along two parallel lines so that edge crossings are minimized, has applications to circuit layout and graph drawing. Experimental results for several previously known and two new heuristics suggest continued exploration of the problem, particularly sparse instances. We emphasize careful design of experimental subject classes and present novel views of the results. All source code, data, and scripts are available on-li ...

Keywords: crossing number, design of experiments, graph drawing, graph embedding, graph equivalence classes, layout

30 Divide-and-conquer approximation algorithms via spreading metrics

Guy Even, Joseph Seffi Naor, Satish Rao, Baruch Schieber
July 2000 **Journal of the ACM (JACM)**, Volume 47 Issue 4

Full text available: pdf(320.60 KB) Additional Information: full citation, abstract, references, citings, index terms, review

We present a novel divide-and-conquer paradigm for approximating NP-hard graph optimization problems. The paradigm models graph optimization problems that satisfy two properties: First, a divide-and-conquer approach is applicable. Second, a fractional spreading metric is computable in polynomial time. The spreading metric assigns lengths to either edges or vertices of the input graph, such that all subgraphs for which the optimization problem is nontrivial have large diameters. In addition, ...

Keywords: approximation algorithms, divide and conquer, feedback set, linear arrangement, multicut, spreading metrics

31 A tree-edit-distance algorithm for comparing simple, closed shapes

Philip Klein, Srikanta Tirthapura, Daniel Sharvit, Ben Kimia
February 2000 **Proceedings of the eleventh annual ACM-SIAM symposium on Discrete algorithms**

Full text available: pdf(817.16 KB) Additional Information: full citation, references, citings, index terms

32 Existential second-order logic over graphs: Charting the tractability frontier

Georg Gottlob, Phokion G. Kolaitis, Thomas Schwentick
March 2004 **Journal of the ACM (JACM)**, Volume 51 Issue 2

Full text available: pdf(409.27 KB) Additional Information: full citation, abstract, references, index terms

Fagin's theorem, the first important result of descriptive complexity, asserts that a property of graphs is in NP if and only if it is definable by an existential second-order formula. In this article, we study the complexity of evaluating existential second-order formulas that belong to *prefix classses* of existential second-order logic, where a prefix class is the collection of all existential second-order formulas in prenex normal form such that the second-order and the first-order quan ...

Keywords: Existential second-order logic, NP-complete problems, finite model theory, graph coloring, graph constraints, prefix classes

33 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

34 New graph decompositions and fast emulations in hypercubes and butterflies

Christos Kaklamanis, Danny Krizanc, Satish Rao

August 1993 **Proceedings of the fifth annual ACM symposium on Parallel algorithms and architectures**

Full text available: pdf(958.39 KB) Additional Information: full citation, references, citings, index terms

35 Efficient integration of multihop wireless and wired networks with QoS constraints

Yigal Bejerano

December 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 6

Full text available: pdf(793.76 KB) Additional Information: full citation, abstract, references, index terms

This study considers the problem of designing an efficient and low-cost infrastructure for connecting static multihop wireless networks with wired backbone, while ensuring QoS requirements such as bandwidth and delay. This infrastructure is useful for designing low-cost and fast deployed access networks in rural and suburban areas. It may also be used for providing access to sensor networks or for efficient facility placement in wireless networks. In these networks, some nodes are chosen as acce ...

Keywords: approximation algorithms, clustering, facility location, sensor networks, unit disk graphs, wireless access network

36 Strongly polynomial-time and NC algorithms for detecting cycles in periodic graphs

Edith Cohen, Nimrod Megiddo

September 1993 **Journal of the ACM (JACM)**, Volume 40 Issue 4

Full text available: pdf(2.88 MB) Additional Information: full citation, references, citings, index terms, review

Keywords: application of multidimensional search, application of parametric method, strongly polynomial algorithms periodic graphs

37 The freeze-tag problem: how to wake up a swarm of robots

Esther M. Arkin, Michael A. Bender, Sándor P. Fekete, Joseph S. B. Mitchell, Martin Skutella

January 2002 **Proceedings of the thirteenth annual ACM-SIAM symposium on Discrete algorithms**

Full text available: pdf(1.11 MB) Additional Information: full citation, abstract, references, citings

An optimization problem that naturally arises in the study of "swarm robotics" is to wake up a set of "asleep" robots, starting with only one "awake" robot. One robot can only awaken another when they are in the same location. As soon as a robot is awake, it assists in waking up other robots. The goal is to compute an optimal *awakening schedule* such that all robots are awake by time t^*, for the smallest possible value of t^*.We consider both scenarios on graphs and in geometr ...

38 Three-dimensional medical imaging: algorithms and computer systems

M. R. Stytz, G. Frieder, O. Frieder

December 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 4

Full text available: pdf(7.38 MB) Additional Information: full citation, references, citings, index terms, review

Keywords: Computer graphics, medical imaging, surface rendering, three-dimensional imaging, volume rendering

39 Polylog-time and near-linear work approximation scheme for undirected shortest paths

Edith Cohen

January 2000 **Journal of the ACM (JACM)**, Volume 47 Issue 1

Full text available: pdf(311.19 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Shortest paths computations constitute one of the most fundamental network problems. Nonetheless, known parallel shortest-paths algorithms are generally inefficient: they perform significantly more work (product of time and processors) than their sequential counterparts. This gap, known in the literature as the "transitive closure bottleneck," poses a long-standing open problem. Our main result is an $Omn^{e0}+s$

40 Index-driven similarity search in metric spaces

Gisli R. Hjaltason, Hanan Samet

December 2003 **ACM Transactions on Database Systems (TODS)**, Volume 28 Issue 4

Full text available: pdf(650.64 KB) Additional Information: full citation, abstract, references, index terms

Similarity search is a very important operation in multimedia databases and other database applications involving complex objects, and involves finding objects in a data set S similar to a query object q, based on some similarity measure. In this article, we focus on methods for similarity search that make the general assumption that similarity is represented with a distance metric d. Existing methods for handling similarity search in this setting typically fall into one of ...

Keywords: Hiearchical metric data structures, distance-based indexing, nearest neighbor queries, range queries, ranking, similarity searching

Terms used
decomposition and **tree** and **graph** and **nodes** and **edges** and **path** and **distance** and **depth**

Found **40,368** of **151,219**

Sort results by relevance

Display results expanded form

Save results to a Binder

Search Tips

Open results in a new window

Try an Advanced Search

Try this search in The ACM Guide

Results 41 - 60 of 200 Result page: previous 1 2 **3** 4 5 6 7 8 9 10 next

Best 200 shown

Relevance scale

41 Nonplanar topological inference and political-map graphs

Zhi-Zhong Chen, Xin He, Ming-Yang Kao

January 1999 **Proceedings of the tenth annual ACM-SIAM symposium on Discrete algorithms**

Full text available: pdf(1.24 MB) Additional Information: full citation, references, citings, index terms

42 A decomposition of multidimensional point sets with applications to k-nearest-neighbors and n-body potential fields

Paul B. Callahan, S. Rao Kosaraju

January 1995 **Journal of the ACM (JACM)**, Volume 42 Issue 1

Full text available: pdf(1.85 MB) Additional Information: full citation, abstract, references, citings, index terms

We define the notion of a well-separated pair decomposition of points in d-dimensional space. We then develop efficient sequential and parallel algorithms for computing such a decomposition. We apply the resulting decomposition to the efficient computation of k-nearest neighbors and n-body potential fields.

Keywords: all nearest neighbors, fast multipole method

43 Hierarchical vertical decompositions, ray shooting, and circular arc queries in simple polygons

Siu-Wing Cheng, Hazel Everett, Otfried Cheong, René van Oostrum

June 1999 **Proceedings of the fifteenth annual symposium on Computational geometry**

Full text available: pdf(1.08 MB) Additional Information: full citation, references, citings, index terms

44 Technical papers: program analysis: Efficient path conditions in dependence graphs

Torsten Robschink, Gregor Snelting

May 2002 **Proceedings of the 24th International Conference on Software Engineering**

Full text available: pdf(1.18 MB) Additional Information: full citation, abstract, references, citings, index terms

Program slicing combined with constraint solving is a powerful tool for software analysis. Path conditions are generated for a slice or chop, which --- when solved for the input variables --- deliver compact "witnesses" for dependences or illegal influences between program points.In this contribution we show how to make path conditions work for large programs. Aggressive engineering, based on interval analysis and BDDs, is shown to overcome the potential combinatoric explosion. Case studies and ...

45 A survey of graph layout problems
Josep Díaz, Jordi Petit, Maria Serna
September 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 3

Full text available: pdf(1.47 MB) Additional Information: full citation, abstract, references, citings, index terms

Graph layout problems are a particular class of combinatorial optimization problems whose goal is to find a linear layout of an input graph in such way that a certain objective cost is optimized. This survey considers their motivation, complexity, approximation properties, upper and lower bounds, heuristics and probabilistic analysis on random graphs. The result is a complete view of the current state of the art with respect to layout problems from an algorithmic point of view.

Keywords: Approximation algorithms, complexity, embedding, heuristics, layout, parameterized complexity, random graphs

46 Storing a collection of polygons using quadtrees
Hanan Samet, Robert E. Webber
July 1985 **ACM Transactions on Graphics (TOG)**, Volume 4 Issue 3

Full text available: pdf(3.00 MB) Additional Information: full citation, abstract, references, citings, index terms

An adaptation of the quadtree data structure that represents polygonal maps (i.e., collections of polygons, possibly containing holes) is described ina manner that is also useful for the manipulation of arbitrary collections of straight line segments. The gol is to store these maps without the loss of information that results from digitization, and to obtain a worst-case execution time that is not overly sensitive to the positioning of the map. A regular decomposition variant of the region ...

Keywords: geographic information, hierarchical data structures, line representations, map overlay, polygonal representations, quadtrees

47 On finding minimal 2-connected subgraphs
Pierre Kelsen, Vijaya Ramachandran
March 1991 **Proceedings of the second annual ACM-SIAM symposium on Discrete algorithms**

Full text available: pdf(1.10 MB) Additional Information: full citation, references, citings, index terms

48 Session 1C: Sublogarithmic approximation for telephone multicast: path out of jungle (extended abstract)
Michael Elkin, Guy Kortsarz
January 2003 **Proceedings of the fourteenth annual ACM-SIAM symposium on Discrete algorithms**

Full text available: pdf(1.02 MB) Additional Information: full citation, abstract, references, index terms

Consider a network of processors modeled by an n-vertex graph $G = (V, E)$. Assume that

the communication in the network is synchronous, i.e., occurs in discrete "rounds", and in every round every processor is allowed to pick one of its neighbors, and to send it a message. The *telephone k-multicast* problem requires to compute a schedule with minimal number of rounds that delivers a message from a given single processor, that generates the message, to all the proc ...

49 Computational strategies for object recognition

Paul Suetens, Pascal Fua, Andrew J. Hanson

March 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 1

Full text available: pdf(6.37 MB) Additional Information: full citation, abstract, references, citings, index terms, review

This article reviews the available methods for automated identification of objects in digital images. The techniques are classified into groups according to the nature of the computational strategy used. Four classes are proposed: (1) the simplest strategies, which work on data appropriate for feature vector classification, (2) methods that match models to symbolic data structures for situations involving reliable data and complex models, (3) approaches that fit models to the photometry and ...

Keywords: image understanding, model-based vision, object recognition

50 On Gazit and Miller's parallel algorithm for planar separators: achieving greater efficiency through random sampling

Philip Klein

August 1993 **Proceedings of the fifth annual ACM symposium on Parallel algorithms and architectures**

Full text available: pdf(838.18 KB) Additional Information: full citation, references, index terms

51 Average case analysis of dynamic graph algorithms

David Alberts, Monika Rauch Henzinger

January 1995 **Proceedings of the sixth annual ACM-SIAM symposium on Discrete algorithms**

Full text available: pdf(1.33 MB) Additional Information: full citation, references, citings

52 Behavioral synthesis of field programmable analog array circuits

Haibo Wang, Sarma B. K. Vrudhula

October 2002 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 7 Issue 4

Full text available: pdf(519.64 KB) Additional Information: full citation, abstract, references, index terms

This article presents methods to translate a behavioral-level analog description into a Field Programmable Analog Array (FPAA) implementation. The methods consist of several steps that are referred to as function decomposition, macrocell synthesis, placement and routing, and postplacement simulation. The focus of this article is on the first three steps. The function decomposition step deals with decomposing a high-order system function into a set of lower-order functions. We present an efficien ...

Keywords: Programmable circuits, analog synthesis

53 Linear time algorithms for visibility and shortest path problems inside simple polygons

L Guibas, J Hershberger, D Leven, M Sharir, R Tarjan
August 1986 **Proceedings of the second annual symposium on Computational geometry**

Full text available: pdf(1.20 MB) Additional Information: full citation, abstract, references, citings, index terms

We present linear time algorithms for solving the following problems involving a simple planar polygon P: (i) Computing the collection of all shortest paths inside P from a given source vertex s to all the other vertices of P; (ii) Computing the subpolygon of P consisting of points that are visible from a segment within P; (iii) Preprocessing P so that for any query ray

54 The weighted region problem: finding shortest paths through a weighted planar subdivision
Joseph S. B. Mitchell, Christos H. Papadimitriou
January 1991 **Journal of the ACM (JACM)**, Volume 38 Issue 1

Full text available: pdf(3.92 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The problem of determining shortest paths through a weighted planar polygonal subdivision with n vertices is considered. Distances are measured according to a weighted Euclidean metric: The length of a path is defined to be the weighted sum of (Euclidean) lengths of the subpaths within each region. An algorithm that constructs a (restricted) "shortest path map" with respect to a given source point is presented. The output is a partitioning of each edge of the su ...

Keywords: Dijkstra's algorithm, Voronoi diagrams, shortest paths, terrain navigation, weighted distance functions

55 An O(n log n) algorithm for the maximum agreement subtree problem for binary trees
Richard Cole, Ramesh Hariharan
January 1996 **Proceedings of the seventh annual ACM-SIAM symposium on Discrete algorithms**

Full text available: pdf(1.03 MB) Additional Information: full citation, references, citings, index terms

56 Geometric compression through topological surgery
Gabriel Taubin, Jarek Rossignac
April 1998 **ACM Transactions on Graphics (TOG)**, Volume 17 Issue 2

Full text available: pdf(8.98 MB) Additional Information: full citation, abstract, references, citings, index terms

The abundance and importance of complex 3-D data bases in major industry segments, the affordability of interactive 3-D rendering for office and consumer use, and the exploitation of the Internet to distribute and share 3-D data have intensified the need for an effective 3-D geometric compression technique that would significantly reduce the time required to transmit 3-D models over digital communication channels, and the amount of memory or disk space required to store the models. Because ...

Keywords: 3D mesh compression, VRML, geometry compression

57 Power minimization in IC design: principles and applications
Massoud Pedram
January 1996 **ACM Transactions on Design Automation of Electronic Systems (TODAES)**, Volume 1 Issue 1

Full text available: pdf(550.02 KB) Additional Information: full citation, abstract, references, citings, index terms

Low power has emerged as a principal theme in today's electronics industry. The need for low power has caused a major paradigm shift in which power dissipation is as important as performance and area. This article presents an in-depth survey of CAD methodologies and techniques for designing low power digital CMOS circuits and systems and describes the many issues facing designers at architectural, logical, and physical levels of design abstraction. It reviews some of the techniques and tool ...

Keywords: CMOS circuits, adiabatic circuits, computer-aided design of VLSI, dynamic power dissipation, energy-delay product, gated clocks, layout, low power layout, low power synthesis, lower-power design, power analysis and estimation, power management, power minimization and management, probabilistic analysis, silicon-on-insulator technology, statistical sampling, switched capacitance, switching activity, symbolic simulation, synthesis, system design

58 Graph-theoretic methods in database theory

Mihalis Yannakakis

April 1990 **Proceedings of the ninth ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems**

Full text available: pdf(1.61 MB) Additional Information: full citation, references, citings, index terms

59 Linear recursive networks and their applications in topological design and data routing

Hsu Wen Jing, Amitabha Das, Moon Jung Chung

October 1993 **ACM SIGCOMM Computer Communication Review , Conference proceedings on Communications architectures, protocols and applications**, Volume 23 Issue 4

Full text available: pdf(862.76 KB) Additional Information: full citation, references, index terms

60 Session 7B: A general approach to online network optimization problems

Noga Alon, Baruch Awerbuch, Yossi Azar, Niv Buchbinder, Joseph (Seffi) Naor

January 2004 **Proceedings of the fifteenth annual ACM-SIAM symposium on Discrete algorithms**

Full text available: pdf(278.89 KB) Additional Information: full citation, abstract, references

We study a wide range of online graph and network optimization problems, focusing on problems that arise in the study of connectivity and cuts in graphs. In a general online network design problem, we have a communication network known to the algorithm in advance. What is not known in advance are the bandwidth or cut demands between nodes in the network. Our results include an $O(\log m \log n)$ competitive randomized algorithm for the online non-metric facility location and for ...

Your search matched **3** of **1138071** documents.
A maximum of **500** results are displayed, **15** to a page, sorted by **Relevance** in **Descending** order.

Refine This Search:
You may refine your search by editing the current search expression or entering a new one in the text box.

decomposition<and>tree<and>graph<and>nodes<and> Search

☐ Check to search within this result set

Results Key:
JNL = Journal or Magazine **CNF** = Conference **STD** = Standard

---

1 **Hierarchical EGI: a new method for object representation**
Xu, J.Z.; Suk, M.; Ranka, S.;
Signal Processing, 1996., 3rd International Conference on , Volume: 2 , 14-18 Oct. 1996
Pages:926 - 929 vol.2

[Abstract] [PDF Full-Text (432 KB)] **IEEE CNF**

---

2 **Using graph parsing for automatic graph drawing**
McCreary, C.L.; Chapman, R.O.; Shieh, F.-S.;
Systems, Man and Cybernetics, Part A, IEEE Transactions on , Volume: 28 , Issue: 5 , Sept. 1998
Pages:545 - 561

[Abstract] [PDF Full-Text (460 KB)] **IEEE JNL**

---

3 **A new algorithm for transitive closures and computation of recursion in relational databases**
Yangjun Chen;
Information Visualization, 2003. IV 2003. Proceedings. Seventh International Conference on , 16-18 July 2003
Pages:206 - 213

[Abstract] [PDF Full-Text (374 KB)] **IEEE CNF**

Google Web Images Groups News Froogle Local[New!] more »
+decomposition +tree +graph +nodes +edges Search Advanced Search Preferences

Web Results **1** - **10** of about **9,970** for **+decomposition +tree +graph +nodes +edges +path +distance +depth**. (**0.34** second

LAUPACK - **Graph** routines by Hang Tong Lau
DECOMP does **path decomposition** for a planarity test ..... finds a maximum cardinality matching in a **graph**. GRAPH_ARC_MINTR2 finds the minimum spanning **tree** of a **graph** ...
www.csit.fsu.edu/~burkardt/f_src/laupack/laupack.html - 9k - Cached - Similar pages

15-854 Approximation and Online Algorithms 2/23/00 * Embedding ...
Can take the **decomposition** and convert to a **tree**. ..... If we just add over neighbors in the **graph** we get ..... Example 2: suppose we have a complete binary **tree** of **depth** ...
www-2.cs.cmu.edu/afs/cs.cmu.edu/ usr/avrim/www/Approx00/lectures/lect0223 - 10k - Cached - Similar pages

[PDF] Preprocessing an undirected planar network to enable fast ...
File Format: PDF/Adobe Acrobat
There is an entry in Tx for each **tree**-vertex v of the **decomposition** for which N(v) contains the **graph** node x. 3 The entry of Tx corresponding to v is a ...
portal.acm.org/ft_gateway.cfm?id=545488&type=pdf - Similar pages

[PDF] A Polynomial-Time Approximation Scheme for Weighted Planar **Graph** ...
File Format: PDF/Adobe Acrobat
... be a subgraph arising in the hierarchical **decomposition** of the ..... induced by cutting the shortest-**path tree** at **distance** d .... the embedding of the planar **graph** in such ...
portal.acm.org/ft_gateway.cfm?id=314632&type=pdf - Similar pages
[More results from portal.acm.org]

[PDF] A Polynomial-Time Approximation Scheme for Weighted Planar **Graph** ...
File Format: PDF/Adobe Acrobat - View as HTML
... times the cost of a minimum spanning **tree** in the .... k" . Summing over all levels of the **decomposition**, we obtain .... this tour back to the original **graph** as follows.
www.mathcs.emory.edu/~mic/papers/12.pdf - Similar pages

Graph Algorithms
We show as a general result that the number of paths in such a **decomposition** can always be limited to m ..... The minimum spanning **tree** of a weighted **graph** is a ...
www.softpanorama.org/Algorithms/**graph**_algorithms.shtml - 55k - Cached - Similar pages

[PDF] Approximate Cell **Decomposition** Methods
File Format: PDF/Adobe Acrobat - View as HTML
undirected **graph** G: • **nodes** in G correspond to empty and mixed cells in P ..... in the worst-case, the **tree** has 2 ... Approx. Cell **Decomposition** Methods [7] ...
parasol.tamu.edu/~amato/Courses/ padova04/lectures/L4.approx-decomp.pdf - Similar pages

[PDF] Many-to-Many Feature Matching Using Spherical Coding of Directed ...
File Format: PDF/Adobe Acrobat - View as HTML
The complete **graph** in (b) captures the Euclidean distances ... while (c) is the metric **tree** representation of the multi-scale **decomposition** (with additional ...
facweb.cs.depaul.edu/research/ vc/publications/fdassdyklb2004eccv.pdf - Similar pages

[PDF] LNCS 3111 - Collective **Tree** Spanners of Graphs
File Format: PDF/Adobe Acrobat - View as HTML
Clearly, the **nodes** of BT (G) represent a partition of the vertex set V of G into ....

It is easy to see that a balanced **decomposition tree** BT (G) of a **graph** G with ...
www.cs.kent.edu/~dragan/SWAT04.pdf - Similar pages

[PDF] Spatially-Aware Information Retrieval with **Graph**-Based Qualitative ...
File Format: PDF/Adobe Acrobat - View as HTML
... branch **distance**" (ie the number of **nodes** between the ... r q ,r i) in the connection **graph**. ... computed by recursively traversing the **decomposition tree** until the ...
www.tzi.de/grp/ag-ki/download/2003/vogele03_FLAIRS.pdf - Similar pages

Goooooooooogle ▶
Result Page: 1 2 3 4 5 6 7 8 9 10 **Next**

+decomposition +tree +graph +node Search

Search within results | Language Tools | Search Tips | Dissatisfied? Help us improve

Google Home - Advertising Programs - Business Solutions - About Google

Google Web Images Groups News Froogle Local[New!] more »
+decomposition +tree +graph +nodes +edges Search Advanced Search Preferences

Web Results **11** - **20** of about **9,970** for **+decomposition +tree +graph +nodes +edges +path +distance +depth**. (**0.30** secon

[PDF] MULTIRESOLUTION LINEAR DISCRIMINANT ANALYSIS: EFFICIENT EXTRACTION ...
File Format: PDF/Adobe Acrobat - View as HTML
... terminal **nodes**, we continue MLDA image **decomposition** until all ..... from the starting point in the MLDA **graph** (ie the ... of new **nodes** in the search **tree**) is controlled ...
www.mil.ufl.edu/mav/publications/papers/10.pdf - Similar pages

[PDF] MULTIRESOLUTION LINEAR DISCRIMINANT ANALYSIS: EFFICIENT EXTRACTION ...
File Format: PDF/Adobe Acrobat - View as HTML
... terminal **nodes**, we continue MLDA image **decomposition** until all ..... the starting point in the MLDA **graph** (ie the ... new **nodes** in the Á £ search **tree**) is controlled ...
www.mil.ufl.edu/~nechyba/eel6562/ course_materials/t7.sinisa/icip2003.pdf - Similar pages
[More results from www.mil.ufl.edu]

[PDF] Many-to-Many **Graph** Matching via Metric Embedding
File Format: PDF/Adobe Acrobat - View as HTML
Figure 1. **Path** partition of a **tree**. ... level 2 paths, we are left with an empty **graph**. .... coordinates corresponding to the paths in the **decomposition** sequence of □ ...
facweb.cs.depaul.edu/research/ vc/publications/ykasfdsd2003cvpr.pdf - Similar pages

[PDF] DETC2004-57702
File Format: PDF/Adobe Acrobat - View as HTML
... 7–9] examined how to develop **graph**-based data ..... of the leaf **nodes** in a **decomposition** **tree** would correspond ... proceed with the scale-space **decomposition** of model M ...
gicl.cs.drexel.edu/papers/PDFs/bespalov-asme04.pdf - Similar pages

[PDF] Addressing, Distances and Routing in Triangular Systems with ...
File Format: PDF/Adobe Acrobat - View as HTML
... other that the two labels, regarding the **graph** from which ..... v. It is easy to see that a **decomposition tree** T of a .... NCA-**depth** labeling scheme for a **tree** T with the ...
www.cs.kent.edu/~dragan/WMAN04.pdf - Similar pages
[More results from www.cs.kent.edu]

[PDF] **Graph** Sketches
File Format: PDF/Adobe Acrobat - View as HTML
In the first pass, the spanning **tree** is constructed. ... com- putes a k -view of a **graph** G in ... The Network **Decomposition** Problem presented in [6] con- sists of ...
www.mgvis.com/Papers/Visualization/**graph**_sketches.pdf - Similar pages

[PDF] An Approximation Scheme for Planar **Graph** TSP
File Format: PDF/Adobe Acrobat - View as HTML
even subset X of I : Cover the **nodes** of G i ..... Starting from the input **graph** G , we iteratively apply Theorem 2.1 to construct a binary **decomposition tree** ...
www.mathcs.emory.edu/~mic/papers/8.pdf - Similar pages
[More results from www.mathcs.emory.edu]

[PDF] CS270 Problem Set 1 – Spring 2005
File Format: PDF/Adobe Acrobat - View as HTML
Undi- rected graphs also have a **decomposition** theorem: Every undirected **graph** .... a) In the **graph** below, identify ... a non-root vertex in the **depth**-first search **tree**.

www.cs.berkeley.edu/~pbg/cs270/hw1.pdf - Similar pages

[PDF] BHATTt, CHUNG:, LEIGHTON, Many As
File Format: PDF/Adobe Acrobat - View as HTML
tree decomposition .... processor interconnection **graph**. ..... message must traverse. 3. Each hypercube edge is used to route only O(1) **tree edges** (ie, the congestion ...
www.math.ucsd.edu/~fan/mypaps/fanpap/108hyperembed.pdf - Similar pages

[PDF] An Approximation Scheme for Planar **Graph** TSP
File Format: PDF/Adobe Acrobat
Starting from the input **graph** G, we iteratively ap- ply Theorem 2.1 to construct a binary **decomposition tree** 7 where each ..... spanning **tree** in planar **graph** G ...
doi.ieeecomputersociety.org/10.1109/SFCS.1995.492665 - Similar pages

◀ Goooooooooogle ▶
Result Page: **Previous** 1 2 3 4 5 6 7 8 9 10 11 **Next**

+decomposition +tree +graph +node Search

Search within results | Language Tools | Search Tips

Google Home - Advertising Programs - Business Solutions - About Google

Google Web Images Groups News Froogle Local[New!] more »
+decomposition +tree +graph +nodes +edges Search Advanced Search Preferences

Web Results **21** - **30** of about **9,970** for **+decomposition +tree +graph +nodes +edges +path +distance +depth**. (**0.23** secon

[PDF] On Applying Separator Decompositions to **Path** Problems and Network ...
File Format: PDF/Adobe Acrobat - View as HTML
size, can be transformed into a **tree decomposition** of width ... aid of separator decompositions instead of **tree** decompositions ..... V;E denotes a directed **graph** with ...
www.library.uu.nl/digiarchief/ dip/dispute/2001-0223-164521/1997-36.pdf - Similar pages

Jie Gao
A well-separated pair **decomposition** is simply a set of ... pair, diameter, median, minimum spanning/steiner **tree** etc., since .... for any >0. Such a **graph** is called a (1 ...
graphics.stanford.edu/~jgao/ researchstatement/jie_research.html - 25k - Cached - Similar pages

[PDF] Script of lecture „Planning and Optimization of ...
File Format: PDF/Adobe Acrobat - View as HTML
... graphs 5.2.1 Composition heuristics 5.2.2 **Decomposition** heuristics 5.2 ..... All branches of the **tree** for those the upper .... to find a **path** between two **nodes** in a **graph**.
www.ifn.et.tu-dresden.de/tk/Teaching/ Course_material/Netzplanung_engl/Script_gesamt.pdf - Similar pages

An Efficient **Path** Computation Model for Hierarchically Structured ...
later proposed a good planar **graph decomposition** algorithm, called spatial ..... part of the level k HiTi **graph** and two level ... We take a level 4 subgraph **tree** in Fig.
doi.ieeecomputersociety.org/10.1109/TKDE.2002.1033772 - Similar pages
[More results from doi.ieeecomputersociety.org]

[PDF] Parallel Methods for Visibility and Shortest **Path** Problems in ...
File Format: PDF/Adobe Acrobat
... given a triangulated polygon P, the dual **graph** D of ... triangulation, and a (polygon-cutting theorem) **decomposition tree** T for P ... to T for each pair of **nodes** ...
dx.doi.org/10.1145/98524.98539 - Similar pages

[PDF] Efficient parallel shortest-paths in digraphs with a separator ...
File Format: PDF/Adobe Acrobat
... algorithm is based on paralleliz- ing the hammock **decomposition** technique introduced .... of G. The **tree** TG is a rooted binary **tree** with subgraphs ... original **graph**.
dx.doi.org/10.1145/165231.165240 - Similar pages
[More results from dx.doi.org]

[PDF] Scale-Space Representation of 3D Models and Topological Matching
File Format: PDF/Adobe Acrobat - View as HTML
... for mapping a 3D model to a rooted **tree**. ..... also proposed nu- merous frameworks for **graph** matching, including ..... can proceed with scale-space **decomposition** of model M ...
gicl.cs.drexel.edu/papers/PDFs/p043-bespalov.pdf - Similar pages

[PDF] Microsoft PowerPoint - Chapter 11 - Search Algorithms for Discrete ...
File Format: PDF/Adobe Acrobat - View as HTML
Page 11. Trees vs Graphs Exploring a **graph** as if it was a **tree**. Can be a problem... ...
Why unstructured? **Decomposition** approaches? Do we do the same work as the ...
www-users.cs.umn.edu/~karypis/parbook/Lectures/ GK-CS5451/Chapter%2011%20-%20Search%20Algorithms%20for%20D... - Similar pages

[PDF] CS 681 — Problem Set 4
File Format: PDF/Adobe Acrobat - View as HTML
... is given, otherwise for part b) we could use the algorithm in the book to get a **tree decomposition** of width ... a) We will show that a **graph** with **tree** width w ...
www.cs.cornell.edu/Courses/cs681/2003fa/ps4sol.pdf - Similar pages

[PDF] Micah Adler, Friedhelm Meyer auf der Heide, Dorothea Wagner ...
File Format: PDF/Adobe Acrobat - View as HTML
... whose prime **nodes** of the **decomposition tree** are "simple ... is closely related to modular **decomposition**, and it ..... on doubly linked lists and the **graph** objects (**nodes** ...
www.dagstuhl.de/files/Reports/01/01381.pdf - Similar pages

◀ Goooooooooooogle ▶
Result Page: **Previous** 1 2 3 4 5 6 7 8 9 10 11 12 **Next**

+decomposition +tree +graph +node Search

Search within results | Language Tools | Search Tips

Google Home - Advertising Programs - Business Solutions - About Google